Abstract

In a circuit assembly for generating pulses sustaining or "plucking" RF oscillations in a resonant circuit (12) of transponder (10) having no battery power supply in which the supply voltage needed for its operation is obtained from a RF carrier oscillation pulse defined in time exciting the resonant circuit into oscillation and used to charge a storage element whose charging voltage forms the supply voltage, a plucking pulse is generated every time the amplitude of the RF oscillations drops below a defined threshold value and its momentary value is in a defined relationship to a reference voltage (VPEAK) changing in time as the charging voltage of a capacitor (70). A switch (24) is provided which can be switched on for the duration of the plucking pulse (PLUCK) for connecting the storage element (20) to the resonant circuit (12). A closed control loop (34, 38) is provided which varies the slope of the reference voltage curve between two plucking (PLUCK) pulses in the direction of maintaining the predefined relationship between the momentary value of the RF oscillations and the reference voltage.

Fig. 2